

# Effect of Environment on Electromagnetic wave Lecture-17 (part 2)

TDC PART -1

PAPER 1(GROUP B)

Chapter -6

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# Effects of Environment on Electromagnetic wave

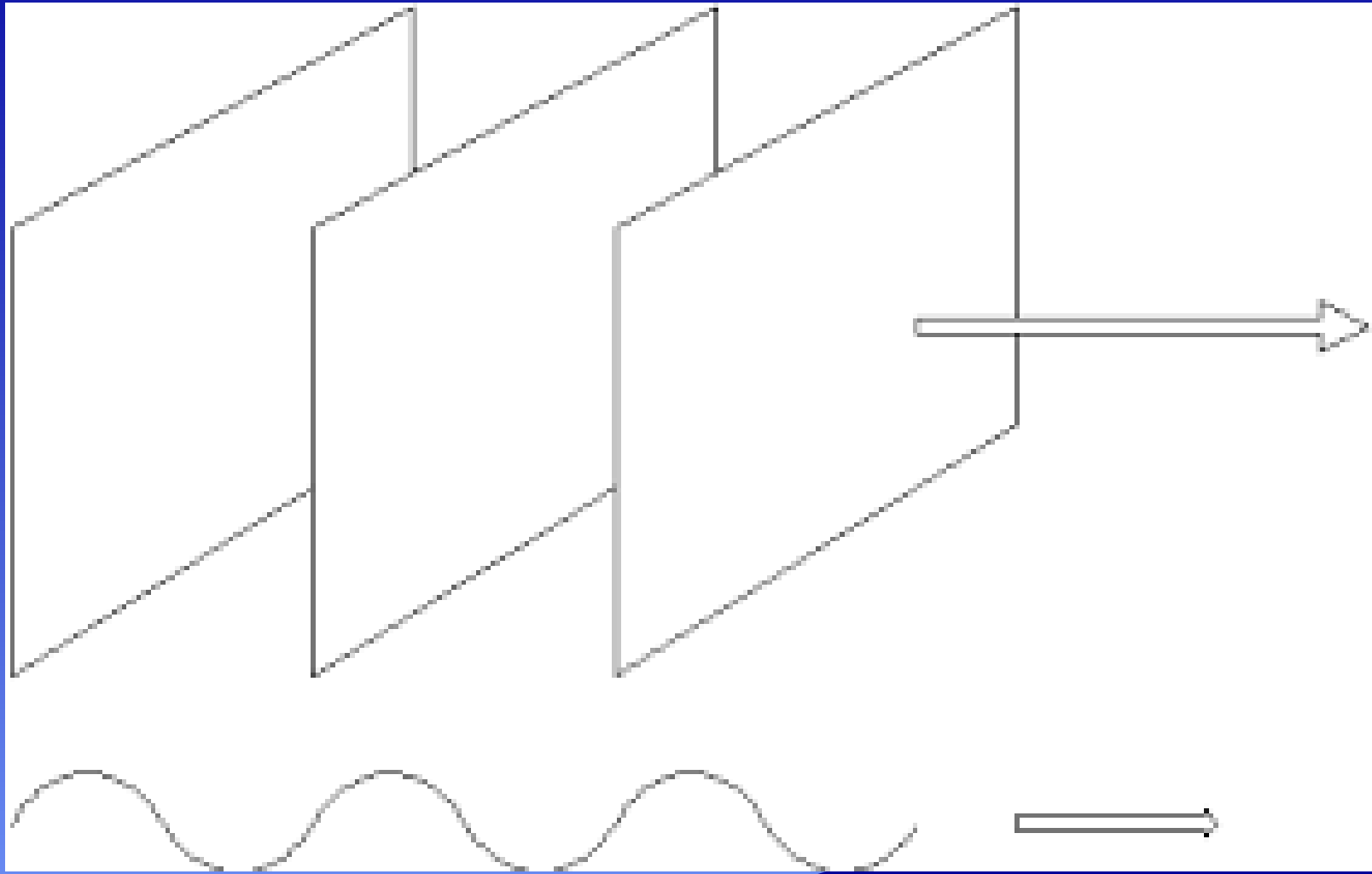
- Electromagnetic waves on the road are exposed to various environmental influences causing phenomena such as bending, reflection, refraction, absorption and multiple propagation.



# Multiple propagation in electromagnetic radiation

- An electromagnetic wave is created by a local disturbance in the electric and magnetic fields. From its origin, the wave will propagate outwards in all directions. If the medium in which it is propagating (air for example) is the same everywhere, the wave will spread out uniformly in all directions.





# Bending of Electromagnetic waves

- Electromagnetic waves can be deviated from its straight path by applying highly non uniform magnetic field.



